

ThinkPad T450 Platform Specifications

Product Specifications Reference (PSREF)

Processor	4th Generation Intel® Core™ i3 / i5 or 5th Generation Intel Core i3 / i5 / i7 Processor								Smart card reader	<i>Optional:</i> Smart card reader											
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Speed	Processor Graphics	Media reader Ports	4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0 (one Always On), VGA, Mini DisplayPort, Ethernet (RJ-45), Dock connector (integrated models only)											
	i3-4030U	2	4	1.9 GHz	-	3MB	DDR3L-1600	Intel HD Graphics 4400	Camera Audio support	HD720p resolution, low light sensitive, fixed focus HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack											
	i5-4300U			1.9 GHz	2.9 GHz			Intel HD Graphics 5500													
	i3-5010U			2.1 GHz	-	3MB			Keyboard UltraNav™	6-row, spill-resistant, multimedia Fn keys, optional LED backlight TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch											
	i5-5200U			2.2 GHz	2.7 GHz			4MB		Security chip ThinkEngine	Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures										
	i5-5300U			2.3 GHz	2.9 GHz	Intel vPro Technology															
	i7-5500U			2.4 GHz	3 GHz	vPro (<i>optional</i>) Fingerprint reader															
	i7-5600U			2.6 GHz	3.2 GHz					<i>Optional:</i> Fingerprint reader on the keyboard bezel, swipe sensor											
Graphics	Intel HD Graphics 4400 or 5500 in processor, supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 1920x1200@60Hz (VGA)																				
Chipset	Intel SoC (System on Chip) platform								Internal battery	<i>Optional:</i> Integrated Li-Ion or Li-Polymer 3-cell (23Wh)											
Memory	16GB max ⁷ / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets								External battery	Li-Ion 3-cell (23Wh) or 6-cell (48Wh or 72Wh)											
									Max battery life ¹⁰	<table><tr><th>Models</th><th>3-cell + 3-cell</th><th>3-cell + 6-cell 48Wh</th><th>3-cell + 6-cell 72Wh</th></tr><tr><td>Battery life</td><td>10.08 hr</td><td>14.78 hr</td><td>19.78 hr</td></tr></table>	Models	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh	Battery life	10.08 hr	14.78 hr	19.78 hr			
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Display	<i>Some:</i> 14.0" (355mm) HD (1366x768), anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 350:1 contrast ratio <i>Some:</i> 14.0" (355mm) HD+ (1600x900), anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 400:1 contrast ratio								AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter											
Multi-touch (<i>opt</i>)	Capacitive-type multi-touch, supports 10-finger gesture, 212.5 nits								Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • PC Device Stage • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions)											
Storage	<i>Some:</i> SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable <i>Some:</i> HDD / SATA 6.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ <i>Some:</i> SSHD with 8GB NAND flash memory									<i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit • Lenovo Solution Center • Lenovo SHAREit • Lenovo Companion • ThinkVantage System Update • PC Device Stage • Norton Studio • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions)											
M.2 SSD (<i>opt</i>)	Single-sided M.2 SSD, via M.2 card slot																				
Optical	None																				
Ethernet	<i>Non-vPro model:</i> Intel Ethernet Connection I218-V (Clarkville) <i>vPro model:</i> Intel Ethernet Connection I218-LM (Clarkville)																				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																				
WLAN ⁴	<i>One of the following, configurable by model:</i> • 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card • 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card								Limited warranty ¹²	<i>One of the following, configurable by model:</i> • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service ²⁴ • 3-year/1-yr battery limited onsite service, IWS (International Warranty Service ¹⁷)											
WWAN (<i>optional</i>)	<i>One of the following, configurable by model:</i> • Wireless WAN upgradable • Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card								Mil-Spec test	MIL-STD-810G military certification.											
SIM card (<i>opt</i>)	AT&T® or Verizon® LTE (4G), contract required with service provider								Environment	EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant											
Dimensions ³	14.0" (WxDxH): 13.35" x 9.15" x 0.83"; 339mm x 232.5mm x 21mm 14.0" Touch (WxDxH): 13.35" x 9.15" x 0.91"; 339mm x 232.5mm x 23mm																				
Weight ²	Models		No + 3-cell		3-cell + 3-cell		3-cell + 6-cell														
	Non-touch		3.58 lb / 1.63 kg		3.81 lb / 1.73 kg		4.21 lb / 1.91 kg														
	Multi-touch		3.89 lb / 1.76 kg		4.11 lb / 1.87 kg		4.52 lb / 2.05 kg														
Case material	Display cover:		Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model);																		
	Bottom:		Glass-Fiber Reinforced Plastic																		